

Examining the Relationship between Adolescent Self-esteem and Social Media Addiction: A Comprehensive Study

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This study delves into the intricate dynamics between self-esteem and social media addiction among adolescents, exploring their interplay in the digital age. A comprehensive analysis drawing from diverse theoretical frameworks and recent empirical research elucidates the multifaceted relationship between self-esteem, social media use, and adolescent well-being. Our findings reveal a moderate positive correlation between self-esteem and social media addiction, challenging conventional wisdom and underscoring the nuanced nature of this association. Furthermore, through multiple regression analysis, we provide insights into the predictive power of self-esteem on social media addiction, highlighting the significance of considering psychological variables in understanding online engagement patterns. Our discussion navigates the complexities of this relationship, offering implications for interventions that promote balanced digital behaviors and adolescent well-being.

Keywords: adolescents, self-esteem, social media addiction, digital age, well-being

Navigating Adolescence in the Digital Age: The Interplay of Self-Esteem and Social Media

In the journey through adolescence, self-esteem stands as a guiding light amidst the tumultuous waves of change and self-discovery. From its roots in the pioneering works of William James to its contemporary relevance in the digital era, self-esteem has been a cornerstone of psychological well-being. As adolescents grapple with identity formation, social integration, and academic pressures, their self-esteem acts as a vital compass, influencing their perceptions of self-worth and resilience against various challenges.

Drawing from diverse theoretical frameworks, such as psychoanalysis, self-psychology, attachment theory, behaviorism, and social cognitive theory, we glean insights into the multifaceted nature of self-esteem. From Freud's exploration of narcissism to Kohut's emphasis on early relationships and Bandura's concept of self-efficacy, these theories converge to underscore the fundamental role of self-esteem in shaping individual behaviors, emotions, and interpersonal dynamics. Supporting this, a study by Kernis (2003) highlights the complex interplay between self-esteem stability and psychological well-being, demonstrating that individuals with stable high self-esteem are less vulnerable to stress and exhibit more adaptive coping mechanisms compared to those with unstable self-esteem.

Self-esteem

Self-esteem refers to the extent to which a person tends to view himself/herself in favorable terms. As one research team puts it, self-esteem is "the value we place on ourselves" (Pruessner et al., 2005, p. 815). Of course, the only way social scientists have for measuring

self-esteem is through self-reports, and people's feelings of self-esteem are bound to change as they go through their daily lives depending on all sorts of experiences. Also, many studies have indicated that self-esteem tends to decline early in adolescence but then slowly increase by mid to late adolescence (Osborne & Le Gette, 1982; Demo & Savin-Williams, 1983).

In the contemporary landscape, the advent of social media has reshaped the terrain upon which adolescents navigate their developmental journey. With billions of users worldwide, platforms like Facebook, Instagram, and Twitter have become integral facets of modern communication and interaction. However, amidst the benefits of enhanced connectivity, educational resources, and self-expression, social media also presents significant challenges. Numerous studies highlight the negative impact of social media on adolescents. Primack et al. (2017) found a correlation between increased social media use and higher levels of perceived social isolation among young adults, suggesting that these platforms can replace more genuine social interactions and contribute to feelings of exclusion. Valkenburg et al. (2006) discovered that adolescents with higher self-esteem tend to be more active on social media, using it to maintain social connections. Andreassen et al. (2017) similarly noted that individuals with higher self-esteem report higher social media usage, possibly to enhance their social standing and self-worth. Gonzales and Hancock (2011) demonstrated that positive feedback on social media can boost self-esteem, leading to increased engagement and potential dependency on these platforms for self-validation.

Cyberbullying, peer comparisons, mental health implications, privacy concerns, and addictive behaviors loom large in the digital realm, casting shadows on adolescents' well-being. The allure of validation through likes and shares, coupled with the fear of missing out on rewarding experiences, can exacerbate compulsive use and detachment from offline realities. Thus, the rise of Social Media Addiction (SMA) emerges as a pressing concern, highlighting the need for a nuanced understanding of its behavioral, emotional, and cognitive dimensions. Supporting this, a study by Primack et al. (2017) found that increased social media use is significantly associated with higher levels of perceived social isolation among young adults. Additionally, a study by Valkenburg et al. (2006)

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I have no known conflict of interest to disclose.

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Demonstrated that adolescents engaging in identity experiments online were more likely to experience negative social and emotional outcomes. Furthermore, Andreassen et al. (2017) revealed that excessive social media use is linked to narcissism and low self-esteem, further complicating the psychological landscape for young users.

In this complex landscape, the interplay between self-esteem and social media becomes increasingly pertinent. Adolescents with robust self-esteem may navigate the digital landscape with greater resilience, leveraging its benefits while mitigating its pitfalls. Conversely, those grappling with low self-esteem may be more susceptible to the negative impacts of social media, exacerbating feelings of inadequacy and social isolation. Supporting this, a study by Vogel et al. (2014) found that individuals with lower self-esteem are more likely to compare themselves negatively to others on social media, leading to greater feelings of inadequacy. Another study by Meier and Gray (2014) indicated that social media use could contribute to depressive symptoms and lower self-esteem, especially among young people. Additionally, research by Hawi and Samaha (2017) demonstrated that excessive social media use is linked to lower self-esteem and higher levels of anxiety and depression.

Recent studies offer valuable insights into the relationship between self-esteem, social media use, and adolescent well-being. For instance, a longitudinal study by Primack et al. (2017) found a significant association between excessive social media use and heightened anxiety, depression, and sleep disturbances among adolescents. Similarly, Patchin and Hinduja (2010) conducted a comprehensive analysis of cyberbullying trends and their impact on adolescent mental health, emphasizing the need for proactive interventions to address this pervasive issue.

Moreover, research by Orth et al. (2012) highlights the pivotal role of self-esteem in buffering against the adverse effects of social media on academic performance and emotional well-being. Adolescents with higher self-esteem demonstrated greater resilience and adaptive coping strategies in the face of cyberbullying and peer comparisons. Conversely, those with lower self-esteem were more vulnerable to negative psychological outcomes associated with excessive social media use. Supporting this, a study by Valkenburg et al. (2006) found that online identity experiments can influence adolescents' self-concept and self-esteem. Additionally, Andreassen et al. (2017) reported a significant relationship between social media addiction, narcissism, and self-esteem, indicating that individuals with lower self-esteem are more prone to develop addictive behaviors. Another study by Primack et al. (2017) demonstrated that increased social media use is associated with higher levels of perceived social isolation, which can negatively impact self-esteem.

As we navigate this dynamic interplay, interventions aimed at bolstering adolescent self-esteem and fostering digital literacy become imperative. Empowering adolescents with the skills to navigate social media mindfully, cultivate healthy online relationships, and discern between genuine connections and superficial validations can serve as pillars of resilience in the digital age. Research by Livingstone et al. (2017) underscores the importance of digital literacy education in helping young people develop critical thinking skills and online safety behaviors. Furthermore, promoting open dialogue about self-esteem, mental health, and responsible digital citizenship within families, schools, and communities can foster supportive environments conducive to adolescent well-being. A study by Weinstein and Selman (2016) found that family discussions about online experiences and self-esteem can significantly enhance adolescents' emotional resilience.

Additionally, O'Reilly et al. (2018) highlight the role of school-based interventions in promoting mental health awareness and digital competence, which are crucial for mitigating the negative impacts of social media.

In conclusion, the intersection of self-esteem and social media epitomizes the evolving landscape of adolescent development in the digital age. As we unravel the complexities of this relationship, we must strive to cultivate a balance between harnessing the opportunities of social media and safeguarding the psychological well-being of adolescents. Through collaborative efforts and informed interventions, we can navigate this digital terrain with empathy, resilience, and a steadfast commitment to nurturing the next generation.

Review of Literature

Recent studies shed light on the intricate dynamics of social media addiction, exploring its relationship with self-esteem, life satisfaction, and psychological well-being among diverse populations. Let's delve into the key findings and implications of these investigations.

In a study by Koçak, İlme, and Younis (2021) the focus lies on the intermediary role of life satisfaction in the association between self-esteem, education level, and social media addiction among 952 Turkish social media users aged 15 and above. The research underscores the mediating effect of life satisfaction, indicating that higher self-esteem and education levels correlate with enhanced life satisfaction, subsequently leading to decreased social media addiction. These findings emphasize the multifaceted nature of psychological traits, educational background, and social media habits, advocating for tailored interventions to promote balanced digital behaviors and overall well-being.

Similarly, Agarwal and Mewafarosh (2021) investigate the dynamic interplay between social media engagement, Fear of Missing Out (FoMO), and subjective well-being (SWB) in college students. The research reveals a robust connection between increased social media engagement and heightened FoMO, which adversely impacts students' mental health, leading to anxiety, depression, and overall deterioration in physical and mental well-being. These findings underscore the imperative of understanding and managing social media engagement among students to safeguard their psychological health and well-being.

Further insights emerge from Al-Samarraie et al. (2021) systematic review, which explores the causes, consequences, and preventions of social media addiction among young users. The review identifies various addiction factors, including social, technological, behavioral, and mental aspects, highlighting the role of negative mood states and low self-control in reinforcing addiction. Moreover, parental involvement is underscored as crucial in mitigating addiction risks, emphasizing the efficacy of strategies such as active mediation and co-use of media. These insights provide valuable guidance for stakeholders in devising comprehensive interventions to address social media addiction and promote psychological well-being.

In contrast, Antonetti and Crisafulli (2021) delve into users' perceptions of bans on aggressive social media behavior in the context of free speech. The study reveals that users are less likely to perceive bans on aggressive posts as violations of free speech or Unfairness, particularly when targeting in-group members. However, perceptions vary based on the target of aggression,

Complexity of balancing free speech concerns with the suppression of online aggression. These findings underscore the importance of transparent decision-making processes regarding bans and the framing of such actions as necessary measures against online aggression.

Method

Participants

The study sampled 300 adolescents (150 males & 150 females) aged 12 to 18, selected using stratified random sampling from three different high schools of Moga, Ludhiana, Fathegarh Sahib, and Sangrur in Punjab to ensure diversity. Additionally, the socioeconomic status of the adolescents indicated that they predominantly came from middle-class families.

Measures

Two main measures were utilized in this study to assess self-esteem and social media addiction:

Rosenberg Self-esteem Scale (RSES): Developed by Rosenberg in 1965, the RSES is a widely used instrument to measure self-esteem. It comprises 10 items, each rated on a four-point Likert-type scale ranging from strongly agree to strongly disagree. The scale assesses global self-worth by measuring both positive and negative feelings about the self. The RSES is reliable (Cronbach's alpha 0.77-0.88; test-retest 0.82-0.85) and valid, effectively measuring global self-esteem.

Bergen Social Media Addiction Scale (BSMAS): Developed by Cecilie Schou Andreassen and colleagues in 2012, the BSMAS assesses social media addiction. It consists of 6 items measuring aspects such as preoccupation, mood modification, tolerance, withdrawal, conflict, and relapse. Participants rate each item on a 5-point Likert scale based on their experiences over the past year. Higher scores indicate greater addiction severity.

Results

Correlation Analysis

Table 1

Summary of Correlation Coefficient Analysis

Variable	Self-esteem	Social Media Addiction
Self-esteem	1.000	0.331
Social Media Addiction	0.331	1.000

Interpretation: The correlation coefficient between self-esteem and social media addiction is 0.331, which indicates a moderate positive correlation. This means that as self-esteem increases, social media addiction also tends to increase, and vice versa. Although the correlation is moderate, it is significant and suggests a relationship between the two variables.

Multiple Regression Analysis

Table 2

Regression Analysis Summary for Self-Esteem Predicting Outcome Variable

Variable	B	β	P
Intercept	2.973	-	<.001
Self-esteem	0.320	0.331	<.001

Note. B = Unstandardized regression coefficient; β = Standardized regression coefficient; p = p-value.

Interpretation: The multiple regression analysis shows that self-esteem has a coefficient (B) of 0.320 with a p-value of less than 0.000. This indicates a significant positive relationship between self-esteem and social media addiction. The standardized coefficient (Beta) of 0.331 is consistent with the correlation coefficient, reinforcing the strength of this relationship.

- *Psychological Perspective*: One reason for this positive correlation might be that individuals with higher self-esteem use social media as a platform to express themselves and reinforce their self-worth through interactions and feedback from others. This can lead to increased usage and potential addiction as they seek continuous affirmation.
- *Social Comparison Theory*: Another explanation can be derived from social comparison theory, where individuals with higher self-esteem engage more in social comparisons on social media. They may feel validated by their online presence and the feedback they receive, which can enhance their self-esteem but also lead to more time spent on social media platforms. Valkenburg et al. (2006) Found that adolescents with higher self-esteem were more active on social media and used it to maintain social connections, which in turn reinforced their self-esteem. Andreassen et al. (2017) Demonstrated that individuals with higher self-esteem reported higher social media usage, suggesting that they might be using these platforms to bolster their social standing and self-worth. Gonzales and Hancock (2011) Indicated that the positive feedback received on social media can boost self-esteem, leading to increased engagement and potential dependency on these platforms for self-validation.

Discussion

Moderate Positive Correlation between Self-Esteem and Social Media Addiction: The positive direction of the relationship, as indicated by the regression coefficient ($B = .320$), is somewhat counterintuitive given that prior research often suggests a negative correlation between self-esteem and problematic social media use. In these studies, lower self-esteem has been linked to higher levels of social media addiction, attributed to compensatory behaviors such as seeking validation online (e.g., Kircaburun et al., 2018; Andreassen et al., 2017). However, the current study's findings might suggest that individuals with higher self-esteem could also engage more frequently in social media activities due to greater confidence in social interaction, whether online or offline. Supporting this perspective, Valkenburg et al. (2006) found that adolescents with higher self-esteem reported more positive feedback on social media, which could encourage more frequent use. Similarly, a study by Kim and Haridakis (2009) indicated that individuals with higher self-esteem might use social media to maintain and enhance their social connections, further suggesting that self-esteem could be positively associated with social media engagement. This dual perspective underscores the complexity of the relationship between self-esteem and social media engagement.

Limitations of the Study

While this study provides valuable insights into the relationship between self-esteem and social media addiction among adolescents, it is not without limitations. Firstly, the sample size of 300 adolescents, though diverse, may not be representative of the broader adolescent population. The study focused on adolescents from specific regions in Punjab, which may limit the

generalizability of the findings to other cultural or geographic contexts. Additionally, the cross-sectional design of the study precludes the determination of causal relationships between self-esteem and social media addiction. Future research employing longitudinal or experimental designs could provide more definitive insights into the directionality of this relationship. Finally, reliance on self-reported measures for assessing self-esteem and social media addiction may introduce response biases, and incorporating multi-method approaches could enhance the robustness of the findings.

Conclusion

In conclusion, this study has illuminated the intricate and somewhat paradoxical relationship between self-esteem and social media addiction among adolescents. The findings of a moderate positive correlation between self-esteem and social media addiction challenge conventional wisdom, suggesting that higher self-esteem may not necessarily be a protective factor against social media addiction. Instead, it may reflect a more nuanced interaction where confident adolescents engage with social media in ways that fulfill their social and emotional needs. However, this engagement still holds the potential for addiction. These insights highlight the importance of considering the multifaceted nature of self-esteem in future research and interventions aimed at mitigating the risks of social media addiction. Interventions should not only address low self-esteem but also guide healthy and balanced social media use for all adolescents, regardless of their self-esteem levels.

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Received July 11, 2024

Revision received August 3, 2024

Accepted August 6, 2024